

IDR RID Report

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Document

RID ID	IDR	2
Review	IDR	
Originator Ref		
Priority	1	

Section

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Figure Table

Category Name User and Performance Models

Actionee Project

Sub Category System Loading

Related RIDs

Subcategory ID

Subject System Sizing/Risk Management of User Demand Estimates

Description of Problem or Suggestion:

Throughout the IDR presentations various speakers and answer panel personnel have stated that:

- A) Additional information is needed from various sources to size hardware, software, CPU usage, networks, etc.
- B) Current sizing models may indicate that we are on the margin at 2X push for pull size or network usage.
- C) Current DAAC usage indicates "Real World" loads are more like 10X - 20X pull to push.

User demand estimates for on-demand ASTER products may significantly impact resource loading and thus H/W and operations support requirements. However, it is not clear that the risks associated with the uncertainties in the estimates are being fully considered in the ECS development process.

Also, the ASTER Science Team has neither the skills or the resources to significantly improve the estimates. ECS and AHWGC need to focus more on demand for ASTER products so that these estimates can be improved.

Originator's Recommendation

- 1) Develop across design what information is needed to proceed with detailed sizing.
- 2) Proactively obtain information from required sources.
- 3) Develop complete sizing of CPUs, networks, disk storage, etc. Write a single document containing sizing.
- 4) Have a review of sizing by project & review team prior to CDR

- 1) ECS should fully recognize the documented limitations of the ASTER demand estimates. These limitations have not received adequate visibility.
- 2) ECS and AHWGC should use their expertise, with the assistance of the ASTER team, to refine the estimates of demand for ASTER products.
- 3) The uncertainties in the demand estimates need to be evaluated for impact on processing and operational resources.

GSFC Response by:

GSFC Response Date

HAIS Response by:

HAIS Schedule

HAIS R. E.

HAIS Response Date

Status

Date Closed

Sponsor Daly

Attachment if any
